Roberts, Bradley

From:

Roberts, Bradley

Sent:

Tuesday, April 04, 2017 9:49 AM

To:

'David_Anderson@oxy.com'

Cc: Subject: Lisa Blair (Lisa_Thurman@oxy.com)
RE: Wichita - Revised Pressure Measurement Record Report

David, I'm filing a copy of this revision attached to the original Progress Report for our file. I have no further requests for revisions on this matter. Thanks.

From: David_Anderson@oxy.com [mailto:David_Anderson@oxy.com]

Sent: Tuesday, April 04, 2017 8:46 AM

To: Roberts, Bradley <roberts.bradley@epa.gov>

Subject: Wichita - Revised Pressure Measurement Record Report

Brad,

Attached is the 4th Quarter Pressure Measurement Report for Wichita with the corrected checkbox. Let me know if you have any questions.

Thanks, Dave

David W. Anderson Glenn Springs Holdings, Inc. 5 Greenway Plaza, Ste 110 Houston, TX 77046

(713) 840-3090 office



Ex. 6 PII



Pressure Measurement Record Administration Building, Technical Center, Control Laboratory

Technician _{Jeremy} Raye Name:				Date 12/23/2	2016		
Equipment and Calibra	tion						
Pressure Meter Make, Mod	del, and Identifi	er Units	Ze	ero Calibration	110-11-127		
Omniguard V. 4.0)	in WC		✓ Pas	s Fail		
Unusual weather condition	Unusual weather conditions yes no Pressure meter reads 0.000 when both ports are open to ambient air.						
Pressure measurement requires a differential pressure meter (aka micromanometer) with a resolution of 0.01 inches of water (in WC) or less (0.001 preferred). The recorded pressure measurement will be the average of readings collected over a half-hour time span (to avoid ephemeral pressure changes such as wind gusts).							
Administration Building	Time	Half-Hour Average Differential Pressure (in WC)		um Effective 001 in WC	Notes		
Second Floor	10:40	0.099		>	Good		
Cafeteria	10:00	0.077	✓ Pa	ass Fail	Good		
Basement	12:45	0.050	✓ Pa	ass Fail	Good		
Note: Inlet 1 should be open to indoor air. Inlet 2 (Reference) should be connected to the outdoor air tubing.							
Technical Center (R&D Lab)	Time	Half-Hour Average Differential Pressure (in WC)		um Effective 001 in WC	Notes		
North Basement	12:00	0.036	√ P	ass Fail	Good		
South Basement	11:20	0.030	√ P	ass Fail	Good		
Note: Inlet 1 should be ope	Note: Inlet 1 should be open to indoor air. Inlet 2 (Reference) should be connected to the outdoor air tubing.						
Control Laboratory	Time	Half-Hour Average Differential Pressure (in WC)		um Effective 001 in WC	Notes		
Lab Area	13:30	0.044	✓ P	ass Fail	Good		
Note: This monitoring location is outside the building (unlike the Administration Building and Technical Center) and the tubing should be connected as follows: Inlet 1 should be connected to the indoor air tubing. Inlet 2 (Reference) should be open to outdoor air.							
Notes: All locations passed inspection.							

Upon completion, this form should be sent to the OXY Wichita Environmental Department (Lisa Thurman)



Building Inspection Record Administration Building, Technical Center, Control Laboratory

Technician Jeremy Raye Name:	Date 12/23/2016
------------------------------	--------------------

Administration Building	Building Inspection Notes (Building Envelope and Floors)	* A
Second Floor	Good	
Cafeteria	Good	,
Basement	Good	4 7 2
Additional details and corr	ctive action	17.43
#F		

Technical Center (R&D Lab)	Building Inspection Notes (Building Envelope and Floors)	
North Basement	Good	
South Basement	Good	
Additional details and corre	ective action	

Lab Area Additional details and corrective action	Good
Additional details and corrective action	

Upon completion, this form should be sent to the OXY Wichita Environmental Department (Lisa Thurman) or GHD (charles.janson@ghd.com).



Roberts, Bradley

From:

Roberts, Bradley

Sent:

Tuesday, February 14, 2017 10:49 AM

To:

Lisa Blair (Lisa_Thurman@oxy.com)
'David Anderson@oxy.com'

Cc: Subject:

Occidental 4th Quarter 2016 Report

Lisa, I just noticed in the 4Q 2016 Report that the checkbox for 'Fail" is checked on the Pressure Monitoring Record for the basement of the Administration Building, yet the notes field shows "Good". Could you provide more explanation, or in case there was a typographical error, could you provide a corrected page? Thanks.

Brad Roberts, Environmental Scientist AWMD/WRAP/RCAP US EPA Region 7 11201 Renner Blvd. Lenexa, KS 66219

Phone: 913-551-7279 Fax: 913-551-9279

Email: roberts.bradley@epa.gov





February 10, 2017

CERTIFIED MAIL:

7016 1970 0000 7026 6136

Return Receipt Requested

U.S. Environmental Protection Agency Region 7 Attn: Chief, RCRA Corrective Action and Permits Branch Air. RCRA and Toxics Division 11201 Renner Boulevard Lenexa, Kansas 66219

RE: 4th QUARTER 2016 QUARTERLY PROGRESS REPORT; OCCIDENTAL CHEMICALS CORPORATION, WICHITA PLANT; USEPA ID# KSD007482029

Dear Sir:

Enclosed please find the Quarterly Progress Report, as required by Occidental Chemical Corporation's RCRA hazardous waste permit number KSD007482029. This report summarizes the activities conducted for Part II of the Facility's RCRA Permit during the fourth quarter of 2016. In addition, please find enclosed the most recent version of the RFI Schedule, which is dated December 31, 2016 along with the most recent Vapor Intrusion ICM Monitoring Report for the fourth guarter of 2016, for your review and use. If you have any questions, please call Lisa R. Thurman at 316/529-7204.

Sincerely.

Steve Hieger Plant Manager for steve Hieser per email 2-8-17 7:51 pm

Enclosure

Carrie Ridley: KDHE C.C.:

CERTIFIED MAIL: 7016 1970 0000 7026 6129

Brad Roberts, USEPA Region VII CERTIFIED MAIL: 7016 1970 0000 7026 6143

David Anderson, GSH Lisa Thurman; OCC

RECEIVED

Charles Janson, GHD

FEB 1 3 2017

AWMD/RCAP

L1702015





Occidental Chemical Corporation, Quarterly Progress Report October 1, 2016 through December 31, 2016

Pursuant to Occidental Chemical Corporation's (OCC) hazardous waste permit KSD007482029, Part II, Section C.13, OCC is submitting this quarterly progress report. This report updates the progress of RCRA Corrective Action activities conducted during the fourth quarter of 2016.

- A quarterly building pressure monitoring and inspection event was completed.
 The completed reporting form is attached hereto.
- Continued operation of the interceptor well network for groundwater control around Occidental's Wichita plant.
- Began implementation of the VI Work Plan on November 11, 2016. Work will extend into first quarter 2017.
- Continued implementation of the CMS Work Plan.
- Completed the Second Semi-Annual Groundwater Monitoring field work.
- Submitted the Third Quarter 2016 progress report to EPA.
- There have been no releases of hazardous materials to report.

Work scheduled for the first quarter of 2017 includes:

- Complete and submit the Second 2016 Semi-Annual Groundwater Monitoring Report.
- Continue operation of the interceptor well network for groundwater control around Occidental's Wichita plant.
- Implement the On-Site Vapor Intrusion Work Plan field data collection.
- Implement the Off-Site Vapor Intrusion Work Plan field data collection.
- Continue implementation of the Corrective Measures Study Work.
- Complete the quarterly building inspection and pressure monitoring event.





Notifications:

Demolition of the permitted hazardous waste tank 38 began in the fourth quarter and completion will be done in the early 1st quarter of 2017. As approved by KDHE the two permitted storage yards have also been closed and therefore 90 days will be the maximum storage on-site for all hazardous waste containers.



OxyChem® Wichita Plant



DATE 07/07/2008 Draft Work Plan for Indoor Soil Gas Sampling 07/07/2008 Spring 2008 Neighbor Results 07/07/2008 Revised Asbestos Surface Impoundment SWMU Interim Corrective Measure Implementation Report 07/28/2008 2008 2nd Quarter Progress Report 08/05/2008 Comments to Draft Work Plan for Collection & Analysis of Groundwater Samples (Appendix 9) 08/05/2008 Request for Extension of QAPP Comment Response 08/05/2008 Request for Extension of QAPP Comment Response 08/05/2008 Request for Extension of QAPP Comment Response 08/15/2008 Response to Railroad Tracked Areas Interim Measures Letter 08/15/2008 Response to Railroad Tracked Areas Interim Measures Letter 08/15/2008 Response to Railroad Tracked Areas Interim Measures Letter 08/15/2008 Response to Railroad Tracked Areas Interim Measures Letter 08/15/2008 Resided Proft Work Plan for Collection & Analysis of Groundwater Samples (Appendix 9) 09/03/2008 Draft Work Plan for Collection & Analysis of Groundwater Samples (Appendix 9) 09/19/2008 Revised Draft Work Plan for Indoor Soils Gas Sampling 09/20/2008 Comments to Draft Work Plan for Indoor Soils Gas Sampling 09/30/2008 Appendix IX Semi-Annual Groundwater Monitoring Report 11/03/2008 Draft Work Plan for Collection & Analysis of Groundwater Samples (Appendix 9) 11/03/2008 Off-Site Soils Gas Sampling Data Evaluation Report 11/21/2008 Off-Site Geoprobe Groundwater Investigation Report 11/12/12/2008 Off-Site Geoprobe Groundwater Investigation Report 01/12/2009 Off-Site Geoprobe Groundwater Investigation Report 01/12/2009 Off-Site Geoprobe Groundwater Neeptigation Report 01/28/2009 Off-Site Geoprobe Groundwater Septigation Report 01/28/2009 Off-Site Geoprobe Groundwater Investigation Report 01/28/2009 Off-Site Geoprobe Report		CORRECTIVE ACTION CHRONOLOGY
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11/03/2008 Draft Work Plan for Collection & Analysis of Groundwater Samples 11/21/2008 Off-Site Soils Gas Sampling Data Evaluation Report 11/21/2008 Off-Site Geoprobe Groundwater Investigation Report 01/05/2009 Draft QAPP 01/19/2009 Indoor Soils Gas Sampling Report 01/23/2009 Sub-Slab Soils Gas Sampling 01/28/2009 Semi-Annual Neighbor Well Data 01/28/2009 4th Quarter Corrective Action Report 02/10/2009 Direct Push Investigation Comments to EPA 02/12/2009 Off-Site Geoprobe Groundwater Investigation Report 02/20/2009 Soil Gas Sampling Data Evaluation Comments to EPA 03/19/2009 Soils Gas Sampling Data Evaluation 03/26/2009 2009 Ongoing Activities Cost Estimate	10/03/2008	Comments to Draft Work Plan for Collection & Analysis of Groundwater Samples (Appendix 9)
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11/21/2008 Off-Site Geoprobe Groundwater Investigation Report 01/05/2009 Draft QAPP 01/19/2009 Indoor Soils Gas Sampling Report 01/23/2009 Sub-Slab Soils Gas Sampling 01/28/2009 Semi-Annual Neighbor Well Data 01/28/2009 4 th Quarter Corrective Action Report 02/10/2009 Direct Push Investigation Comments to EPA 02/12/2009 Off-Site Geoprobe Groundwater Investigation Report 02/20/2009 Soil Gas Sampling Data Evaluation Comments to EPA 03/19/2009 Soils Gas Sampling Data Evaluation 03/26/2009 2009 Ongoing Activities Cost Estimate	11/03/2008	Draft Work Plan for Collection & Analysis of Groundwater Samples
01/05/2009 Draft QAPP 01/19/2009 Indoor Soils Gas Sampling Report 01/23/2009 Sub-Slab Soils Gas Sampling 01/28/2009 Semi-Annual Neighbor Well Data 01/28/2009 4 th Quarter Corrective Action Report 02/10/2009 Direct Push Investigation Comments to EPA 02/12/2009 Off-Site Geoprobe Groundwater Investigation Report 02/20/2009 Soil Gas Sampling Data Evaluation Comments to EPA 03/19/2009 Soils Gas Sampling Data Evaluation 03/26/2009 2009 Ongoing Activities Cost Estimate	11/21/2008	Off-Site Soils Gas Sampling Data Evaluation Report
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01/23/2009 Sub-Slab Soils Gas Sampling 01/28/2009 Semi-Annual Neighbor Well Data 01/28/2009 4 th Quarter Corrective Action Report 02/10/2009 Direct Push Investigation Comments to EPA 02/12/2009 Off-Site Geoprobe Groundwater Investigation Report 02/20/2009 Soil Gas Sampling Data Evaluation Comments to EPA 03/19/2009 Soils Gas Sampling Data Evaluation 03/26/2009 2009 Ongoing Activities Cost Estimate	01/05/2009	Draft QAPP
01/28/2009 Semi-Annual Neighbor Well Data 01/28/2009 4 th Quarter Corrective Action Report 02/10/2009 Direct Push Investigation Comments to EPA 02/12/2009 Off-Site Geoprobe Groundwater Investigation Report 02/20/2009 Soil Gas Sampling Data Evaluation Comments to EPA 03/19/2009 Soils Gas Sampling Data Evaluation 03/26/2009 2009 Ongoing Activities Cost Estimate	01/19/2009	Indoor Soils Gas Sampling Report
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02/10/2009 Direct Push Investigation Comments to EPA 02/12/2009 Off-Site Geoprobe Groundwater Investigation Report 02/20/2009 Soil Gas Sampling Data Evaluation Comments to EPA 03/19/2009 Soils Gas Sampling Data Evaluation 03/26/2009 2009 Ongoing Activities Cost Estimate	01/28/2009	Semi-Annual Neighbor Well Data
02/12/2009 Off-Site Geoprobe Groundwater Investigation Report 02/20/2009 Soil Gas Sampling Data Evaluation Comments to EPA 03/19/2009 Soils Gas Sampling Data Evaluation 03/26/2009 2009 Ongoing Activities Cost Estimate	01/28/2009	
02/20/2009 Soil Gas Sampling Data Evaluation Comments to EPA 03/19/2009 Soils Gas Sampling Data Evaluation 03/26/2009 2009 Ongoing Activities Cost Estimate	02/10/2009	
03/19/2009 Soils Gas Sampling Data Evaluation 03/26/2009 2009 Ongoing Activities Cost Estimate	02/12/2009	
03/26/2009 2009 Ongoing Activities Cost Estimate	02/20/2009	
	03/19/2009	Soils Gas Sampling Data Evaluation
04/20/2009 Off-Site Geoprobe Report	03/26/2009	2009 Ongoing Activities Cost Estimate
	04/20/2009	Off-Site Geoprobe Report



	CORRECTIVE ACTION CHRONOLOGY
DATE	EVENT
04/21/2009	Email responding to QAPP Comments
04/30/2009	Semi-Annual Groundwater Report
04/30/2009	Monitor Well Inspection Summary Report
05/08/2009	Response to Comments for Sub-Slab Soils Gas Sampling Report
06/08/2009	Final QAPP and SAP Reports
06/30/2009	RFI Investigation Work Plan for Landfill, Hex Pits, and Brine Ponds
06/30/2009	ICM Effectiveness Evaluation Report
08/26/2009	Revised RFI Work Plan for Alpha Cake Landfill, Hex Waste Pits and Brine Ponds
09/14/2009	Response to EPA's Comments letter dated July 9, 2009 regarding on-Site vapor intrusion
09/14/2009	On-Site Vapor Intrusion Investigation, Assessment and Interim Corrective Measures Implementation Report
11/30/2009	Draft Penta Area and Shipping RFI Work Plan
12/14/2009	Response to EPA Comments & Submission of Revised Interceptor Well ICM Effectiveness Evaluation Report
12/22/2009	Supplemental Off-Site Soil Gas Sample Collection and Analysis, 1st Quarterly, letter submission
12/30/2009	Preliminary Draft Phase I Summary/Phase II Recommendations letter report
01/15/2010	Response to EPA Comments – On-Site VI, Assessment & Interim ICM Implementation Report
02/12/2010	Final Revision to Interceptor Well ICM Effectiveness Report
02/12/2010	Second 2009 Semiannual Groundwater Monitoring Report
02/16/2010	Received comments from EPA for Penta Area and Shipping RFI Work Plan
02/19/2010	Phase I Summary/Phase II Recommendations Letter Report (final), Alpha Cake Landfill, Hex Waste Pits and Brine Ponds RFI Work Plan
04/30/2010	Response to EPA Comments – Penta Area and Shipping RFI Work Plan
04/30/2010	Revised Penta Area and Shipping RFI Work Plan
05/17/2010	Resampling of MW137S1 Letter to EPA
05/28/2010	Inorganics Area RFI Work Plan
07/09/2010	Received comments from EPA for Inorganics Area RFI Work Plan
08/11/2010	Response to EPA Comments – Inorganics Area RFI Work Plan
08/11/2010	Revised Inorganics Area RFI Work Plan
08/24/2010	First Semiannual Groundwater Monitoring Report
09/23/2010	Groundwater Screening (near MW-140) Investigation Summary Letter
08/24/2010	First Semiannual Groundwater Monitoring Report
09/23/2010	Groundwater Screening (near MW-140) Investigation Summary Letter



DATE	CORRECTIVE ACTION CHRONOLOGY EVENT
09/23/2010	Groundwater Screening (near MW-140) Investigation Summary Letter
10/4/2010	Operation and Maintenance Plan for On-Site Vapor Intrusion ICM for on-Site buildings
10/15/2010	RFI Summary Report for the Alpha Cake Landfill, Hex Waste Pits and Brine Ponds
10/29/2010	Supplemental Quarterly Off-Site Soil Gas Monitoring Summary Report
12/20/2010	Response to EPA Comments on the Operation and Maintenance Plan for On-Site Vapor Intrusion ICM for on- Site buildings
12/16/2010	Received comments from EPA for Supplemental Quarterly Off-Site Soil Gas Monitoring Summary Report
12/16/2010	
12/30/2010	
1/4/2011	Penta Area and Shipping RFI Summary Report
1/17/2011	Response to EPA comments and revised Supplemental Quarterly Off-Site Soil Gas Monitoring Summary Report
1/18/2011	Response to EPA comments and revised RFI Summary Report – Landfill Areas
2/16/2011	Inorganic Area RFI Summary Report
2/23/2011	Second 2010 Semiannual Groundwater Monitoring Report
3/2/2011	Draft Conceptual Design Summary for Groundwater ICM Modifications
4/18/2011	Chloromethanes I, II, Perc and Hazwaste Areas RFI Work Plan
4/18/2011	Arkema Area Investigative Work Plan
4/29/2011	Response to EPA comments and revised RFI Summary Report – Penta Area and Shipping
4/29/2011	Response to EPA comments and revised RFI Summary Report – Inorganics Area
5/2/2011	On-Site Vapor Intrusion Mitigation ICM Construction Completion Report
6/17/2011	Response to EPA comments and revised Preliminary Conceptual Design Groundwater ICM Modifications Rpt
6/30/2011	On-Site Groundwater RFI Work Plan
6/30/2011	Vapor Intrusion ICM Inspection and Pressure Monitoring Record Report Form
7/20/2011	Response to EPA comments and revised Arkema Area Investigative Work Plan
8/1/2011	Response to EPA comments and revised On-Site Vapor Intrusion Mitigation ICM Construction Completion Rpt
8/18/2011	First 2011 Semiannual Groundwater Monitoring Report
8/22/2011	Response to EPA comments and revised Penta Area and Shipping RFI Summary Report
8/22/2011	Response to EPA comments and revised Chloromethanes I, II, Perc and Hazwaste Areas RFI Work Plan
8/26/2011	Response to EPA comments and revised Conceptual Design Groundwater ICM Modifications Report
8/26/2011	Response to EPA comments and revised Conceptual Design Groundwater ICM Modifications Report
9/12/2011	Response to EPA comments and revised Groundwater Monitoring Program Summary Table





DATE	CORRECTIVE ACTION CHRONOLOGY EVENT
9/30/2011	Response to EPA comments and revised Arkema Investigative Work Plan
10/31/2011	Vapor Intrusion ICM Inspection and Pressure Monitoring Record Report Form
11/14/2011	Received EPA comments on On-Site Groundwater RFI Work Plan
11/14/2011	Received EPA approval letter for Arkema Area Investigative Work Plan
11/30/2011	Sampling and Analysis Plan
12/14/2011	Response to Comments and Revised On-Site Groundwater RFI Work Plan
1/5/2012	
1/27/2012	
2/8/2012	Response to Comments and Revised Sampling and Analysis Plan
2/20/2012	
3/9/2012	Revised Sampling and Analysis Plan (SAP)
3/13/2012	Revised Standard Operating Procedures 4 for SAP
3/19/2012	Response to Comments and Revised On-Site Groundwater RFI Work Plan
3/21/2012	EPA Approval letter – On-Site Groundwater RFI Work Plan
4/17/2012	Stormwater Ponds Area RFI Work Plan
4/17/2012	Fuel Depot Area RFI Work Plan
8/6/2012	Penta Area and Shipping Phase II RFI Summary Report
8/6/2012	Chloromethanes I, II, Perc and Hazwaste Areas RFI and Arkema Area Investigation Summary Report
8/13/2012	Response to Comments and Revised Stormwater Ponds RFI Work Plan and Revised Fuel Depot RFI Work Plan
8/14/2012	Inorganics Area Supplemental Report
8/17/2012	Formal Notification of Additional SWMUs
8/24/2012	First 2012 Semiannual Groundwater Monitoring Report
11/14/2012	Class I Modification Letter for Additional SWMUs
11/15/2012	Phase I On-Site Groundwater Investigation RFI Summary Report
2/22/2013	Second 2012 Semiannual Groundwater Monitoring Report
3/7/2013	Response to EPA Comments and Revised Penta Area and Shipping Phase II RFI Summary Report
3/15/2013	Response to EPA Comments and Revised Phase I On-Site Groundwater RFI Summary Report
3/22/2013	Fuel Depot and Stormwater Ponds Area RFI Summary Report
4/19/2013	EPA approval letter – Revised Phase I On-Site Groundwater Summary Report and Revised Phase II Penta Area and Shipping RFI Summary Report
4/24/2013	Monitoring Well Abandonment and Replacement letter



DATE	CORRECTIVE ACTION CHRONOLOGY EVENT
4/25/2013	EPA approval letter – Fuel Depot and Stormwater Pond Area RFI Summary Report
8/22/2013	
2/25/2014	Second 2013 Semi-Annual Groundwater Monitoring Report
2/25/2014	y ,
3/11/2014	
5/16/2014	EPA Comments – Phase II On-Site Groundwater Investigation RFI Summary Report
6/6/2014	Class I Permit Modification Letter, Additional Solid Waste Management Unit
6/19/2014	Response to EPA Comments and Phase II On-Site Groundwater Investigation RFI Supplemental Report
6/20/2014	Notification of Plant Changes Letter (Sump 426)
7/28/2014	Notification of Plant Changes Letter (Deep Well No. 3 cellar modifications)
8/22/2014	
9/4/2014	EPA approval letter – On-Site Groundwater Investigation RFI Summary Report
11/26/2014	Additional Monitoring Well Installations and Groundwater Screening Locations Letter
12/18/2014	Human Health Risk Assessment Work Plan
12/18/2014	Final Comprehensive RFI Summary Report
2/13/2015	Notification of Plant Changes Letter (Sump 417)
2/23/2015	Second 2014 Semi-Annual Groundwater Monitoring Report
3/24/2015	Response to EPA Comments and Revised Comprehensive RFI Summary Report
4/2/2015	Response to EPA Comments and Revised Human Health Risk Assessment Work Plan
4/24/2015	EPA Approval Letter – Revised Human Health Risk Assessment Work Plan
6/4/2015	EPA Approval Letter – Revised Comprehensive RCRA Facility Investigation Summary Report
7/27/2015	First 2015 Semi-Annual Groundwater Monitoring Report
9/3/2015	Human Health Risk Assessment
9/3/2015	Corrective Measures Study Work Plan
10/22/2015	Response to EPA Comments and Revised Corrective Measures Study Work Plan
11/10/2015	EPA Approval Letter - Revised Corrective Measures Study Work Plan
12/29/2015	Response to EPA Comments and Revised Human Health Risk Assessment
01/15/2016	On-Site Vapor Intrusion Investigation Work Plan
03/10/2016	EPA Comments – On-Site Vapor Intrusion Investigation Work Plan
03/31/2016	Second 2015 Semi-Annual Groundwater Monitoring Report





DATE	CORRECTIVE ACTION CHRONOLOGY
DATE	EVENT
07/08/2016	Response to EPA Comments – On-Site Vapor Intrusion Work Plan
07/27/2016	EPA Comments – On-Site Vapor Intrusion Work Plan
08/18/2016	Response to EPA Comments – On-Site Vapor Intrusion Work Plan
08/24/2016	EPA Comments – On-Site Vapor Intrusion Work Plan
09/22/2016	First 2016 Semi-Annual Groundwater Report
09/23/2016	Response to EPA Comments – On-Site Vapor Intrusion Work Plan
09/24/2016	EPA Approval On-Site Vapor Intrusion Work Plan



Pressure Measurement Record Administration Building, Technical Center, Control Laboratory

Technician Jeremy Raye Name:			Date 12/23	3/2016			
Equipment and Calibra							
Pressure Meter Make, Mod		er Units	Zero Calibration				
Omniguard V. 4.0		in WC	✓ P	ass Fail			
Unusual weather condition	Unusual weather conditions yes no Pressure meter reads 0.000 when both ports are open to ambient air.						
Pressure measurement requires a differential pressure meter (aka micromanometer) with a resolution of 0.01 inches of water (in WC) or less (0.001 preferred). The recorded pressure measurement will be the average of readings collected over a half-hour time span (to avoid ephemeral pressure changes such as wind gusts).							
Administration Building	Time	Half-Hour Average Differential Pressure (in WC)	Minimum Effective +0.001 in WC	Notes			
Second Floor	10:40	0.099		Good			
Cafeteria	10:00	0.077	Pass Fail	Good			
Basement	12:45	0.050	Pass Fail	Good			
Note: Inlet 1 should be open to indoor air. Inlet 2 (Reference) should be connected to the outdoor air tubing.							
Technical Center (R&D Lab)	Time	Half-Hour Average Differential Pressure (in WC)	Minimum Effective +0.001 in WC	Notes			
North Basement	12:00	0.036	✓ Pass Fail	Good			
South Basement	11:20	0.030	✓ Pass Fail	Good			
Note: Inlet 1 should be open to indoor air. Inlet 2 (Reference) should be connected to the outdoor air tubing.							
Control Laboratory	Time	Half-Hour Average Differential Pressure (in WC)	Minimum Effective +0.001 in WC	Notes			
Lab Area	13:30	0.044	✓ Pass Fail	Good			
Note: This monitoring location is outside the building (unlike the Administration Building and Technical Center) and the tubing should be connected as follows: Inlet 1 should be connected to the indoor air tubing. Inlet 2 (Reference) should be open to outdoor air.							
Notes:							
All locations passed inspection.							



Building Inspection Record Administration Building, Technical Center, Control Laboratory

Technician Jeremy Raye Name:	Date 12/23/2016
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Administration Building Inspection Notes (Building Envelope and Floors)	
Second Floor	Good
Cafeteria	Good
Basement	Good
Additional details and correct	ctive action

echnical Center R&D Lab)	Building Inspection Notes (Building Envelope and Floors)	
North Basement	Good	
South Basement	Good	
Additional details and corrective	e action	

Control Laboratory	Building Inspection Notes (Building Envelope and Floors)
Lab Area	Good
Additional details and corrective	re action

Upon completion, this form should be sent to the OXY Wichita Environmental Department (Lisa Thurman) or GHD (charles.janson@ghd.com).



